



05-12-05

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/805,183  
Applicant: : Falconer  
Filed: : March 19, 2004  
Group Art Unit : 1724  
Examiner: : Spitzer, Robert H.  
Title: : High-Selectivity Supported SAPO Membranes

Confirmation No.: 7410

Docket No. : 5-04  
Customer No. : 23713

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as Express Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450	
On <u>5/11/05</u>	<u>EV 663 225 664 US</u>
	<u>Lea Murray</u>

INFORMATION DISCLOSURE STATEMENT

MAIL STOP AMENDMENT  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

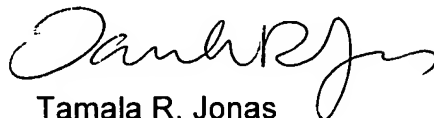
The Examiner is respectfully requested to consider the references, listed on the attached Patent and Trademark Office form PTO-1449, which may qualify as prior art. Copies of non-patent literature documents are enclosed.

Where the month of a reference is not listed, the year of publication is sufficiently earlier than the effective U.S. filing date so that the particular month of publication is not an issue.

References known to the applicants have been listed on PTO-1449. That information is cited in a spirit of forthrightness and cooperation to enable the applicants to obtain that measure of protection for the invention to which there is entitlement. However, no representation is made that the listed art actually qualifies as prior art under the patent statute and the mere use of PTO-1449 is not an admission that all listed references are prior art. No representation is made that applicants know of the best art.

It is believed no fee is required for this submission. If this is incorrect, please deduct the appropriate fee from deposit account 07-1969.

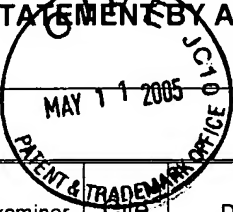
Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Tamala R. Jonas', with a stylized flourish at the end.

Tamala R. Jonas  
Reg. No. 47,688

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Attorney Docket No. 5-04  
lem:May 11, 2005

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Application Number	<b>10/805,183</b>
	Filing Date	<b>March 19, 2004</b>
	First Named Inventor	<b>Falconer</b>
	Art Unit	<b>1724</b>
	Examiner Name	<b>Spitzer, Robert H.</b>
	Attorney Docket Number	<b>5-04</b>



### U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. <sup>1</sup>	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)
		6,767,384	07/27/04	Vu et al.	
		6,193,784	02/2001	Yazawa et al.	
		6,140,263	10/2000	Anstett et al.	
		5,824,617	10/1998	Lai	
		5,779,904	07/1998	Ruderman et al.	
		5,567,664	10/22/96	Barri et al.	
		5,464,798	11/07/95	Jia et al.	
		5,362,522	11/08/94	Barri et al.	
		5,100,596	03/31/92	Haag et al.	
		4,440,871	04/03/84	Lok et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No. <sup>1</sup>	Foreign Patent Document Number (include WIPO country code)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)	T <sup>2</sup>

### NON-PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No. <sup>1</sup>	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Dyer, A. (1988), <u>An Introduction to Zeolite Molecular Sieves</u> , John Wiley & Sons, New York, pp. 1-3, 12-15, 20-25, 36-37, 54, 57	
		Gump, C. et al. (2001), "Aromatic Permeation through Crystalline Molecular Sieve Membranes," <i>Ind. Eng. Chem. Res.</i> <b>40</b> (2):565-577	
		Hedlund, J. et al. (2002), "High-flux MFI membranes," <i>Micro. and Meso. Mater.</i> <b>52</b> :179-189	
		Jhung, S-H. et al. (October 2003), "Selective formation of SAPO-5 and SAPO-34 molecular sieves with microwave irradiation and hydrothermal heating," <i>Micro. and Meso. Mater.</i> <b>64</b> :33-39	
		Kärger, J. and Ruthven, J. (1992), <i>Diffusion in Zeolites</i> , John Wiley and Sons: New York, pp. 9-10	
		Keizer et al. (1998), "Two component permeation through thin zeolite MFI membranes," <i>J. Memb. Sci.</i> <b>147</b> :159-172	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional).

<sup>2</sup>Applicant is to place a check mark here or "x" if English language Translation is attached.

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		First Named Inventor	<b>Falconer</b>
		Art Unit	<b>1724</b>
		Examiner Name	<b>Spitzer, Robert H.</b>
		Attorney Docket Number	<b>5-04</b>

	Li, S. et al. (Available on-line July 24, 2004), "SAPO-34 membranes for CO <sub>2</sub> /CH <sub>4</sub> separation," J. Membrane Sci. <b>241</b> :121-135	
	Li, S. et al. (Available on-line Dec. 2004), "Effects of impurities on CO <sub>2</sub> /CH <sub>4</sub> separations through SAPO-34 membranes," J. Membrane Sci., pp. 59-66	
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	Mériaudeau, P. et al. (1997), "SAPO-11, SAPO-31, and SAPO-41 Molecular Sieves: Synthesis, Characterization, and Catalytic Properties in <i>n</i> -Octane Hydroisomerization," J. Catal. <b>169</b> :55-66	
	Poshusta et al. (1998), "Synthesis and Permeation Properties of SAPO-34 Tubular Membranes," Ind. Eng. Chem. Res. <b>37</b> :3924-3929	
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	Prakash, A.M. and Unnikrishnan, S. (1994), "Synthesis of SAPO-34: High Silicon Incorporation in the Presence of Morpholine as Template," J. Chem. Soc. Faraday Trans. <b>90</b> (15):2291-2296	
	Recipe for SAPO-34, hppt://www.iza-synthesis.org/Recipes/SAPO-34.html, accessed January 15, 2004	
	Sano, T. et al. (1992), "Synthesis and characterization of polycrystalline SAPO-5 film," J. Mol. Catal. <b>77</b> :L19-L26	
	Szostak, R. (1998), "Synthesis of Molecular Sieve Phosphates," in "Recent Advances in the Understanding of Zeolit Synthesis," in <u>Molecular Sieves, Science and Technology</u> , Karge, H.G. and Weitkamp, J., eds., Springer-Verlag, Berlin, pp. 161-165	
	Thompson, R.W. (1998) "Recent Advances in the Understanding of Zeolite Synthesis," in <u>Molecular Sieves, Science and Technology</u> , Karge, H.G. and Weitkamp, J., eds., Springer-Verlag, Berlin, pp. 19-31	
	Tsai, T.-G. et al. (1998), "Well-aligned SAPO-5 membrane: preparation and characterization," Micropor. Mesopor. <b>22</b> :333-341	

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